APPENDIX A

General soil mapping units in Ada and Elmore Counties (Collette, 1980; Noe, 1991) where there are extant *Lepidium papilliferum* populations (Conservation Data Center, 1995).

Soils on Lacustrine Foothills - Ada County

Quincy-Lankbush-Brent

Nearly level to very steep, excessively drained and well drained, very deep soils. *Quincy* (Torripsamment): 20 percent of the map unit area; formed in eolian deposits on south-facing sideslopes of alluvial terraces. *Lankbush* (Haplargid): 20 percent of the map unit area; south and west-facing side slopes of alluvial fans and terraces. *Brent* (Paleargid): 15 percent of the map unit area; north and east-facing slopes of terraces.

Soils on Alluvial Terraces, Basalt Plains, Dissected Alluvial Plains, and Alluvial Fans - Ada County

Tenmile-Chilcott-Kunaton

Nearly level to very steep, well-drained, shallow to very deep soils associated with the highest alluvial terrace south of the Boise River. *Tenmile* (Haplargid): 15 percent of map unit area; steeper positions on high alluvial terraces and sideslopes of drainageways. *Chilcott* (Durargid): 15 percent of map unit area; nearly level on alluvial terraces and basalt plains. *Kunaton* (Durargid): 10 percent of map unit area; gentle ridges and slightly convex areas on the basalt plains.

Chilcott-Kunaton-Sebree

Nearly level to sloping, well drained, shallow and moderately deep soils. Soils developed in loess or silty alluvium. *Chilcott* (Durargid): 25 percent of map unit area; mainly level high alluvial terraces and basalt plains. *Kunaton* (Durargid): 15 percent of map unit area; gentle ridges and slightly convex areas on the basalt plains. *Sebree* (Durargid): 10 percent of map unit area; mainly nearly level, on intermediate positions on the high alluvial terraces and on the basalt plains. Occur as small, subrounded, slick spots throughout areas of the Chilcott and Kunaton soils.

Power-McCain-Purdam

Nearly level to sloping, well drained, shallow and moderately deep soils. These soils formed in loess or silty alluvium over coarser textured alluvium or basalt. *Power* (Haplargid): 35 percent of map unit area; mainly level or slightly concave; on the alluvial terraces and the basalt plain. *McCain* (Haplargid): 30 percent of map unit area; mainly on ridges and near rock outcrops on the basalt plains. *Purdam* (Durargid): 10 percent of map unit area; mainly on higher positions on the alluvial terraces.

Scism-Truesdale-Turbyfill

Nearly level to steep, well drained, moderately deep and very deep soils. These soils developed in loess or silty alluvium and eolian deposits. *Scism* (Durorthid): 35 percent of map unit area; on basalt plains. *Truesdale* (Durorthid): 25 percent of map unit area; on basalt plains in southern part of the area. *Turbyfill* (Torriorthent): 10 percent of map unit area; on basalt plains mainly in drainageways or downslope from drainageways.

Soils on Dissected Piedmonts - Elmore County

Lankbush-Chilcott-Lanktree

Nearly level to strongly sloping; moderately and very deep; well drained soils; alluvial plains and terraces; developed from alluvium from igneous rock. *Lankbush* (Haplargid); *Chilcott* (Durargid); *Lanktree* (Haplargid).

Soils on Stream Terraces - Elmore County

Timmerman-Royal-Buko

Nearly level to strongly sloping, very steep, well and somewhat excessively drained soils; on medium and high terraces of the Snake River, formed in mixed alluvium. *Timmerman* (Camborthid); *Royal* (Camborthid); *Buko* (Camborthid):

Soils on Dissected Terraces and on Plains of the Snake River - Elmore County

Royal-Buko-Davey

Nearly level to steep, very deep, well drained and somewhat excessively drained soils; on dissected terraces of mixed alluvium. *Royal* (Camborthid); *Buko* (Camborthid); *Davey* (Camborthid).

Soils on Basalt Plains in Canyons and on Terraces - Elmore County

Colthorp-Chilcott-Kunaton

Nearly level to strongly sloping, shallow and moderately deep, well drained soils; on basalt plains formed in loess, mixed alluvium and weathered basalt.
Colthorp (Durargid); *Chilcott* (Durargid); *Kunaton* (Durargid).

APPENDIX B

Soil Series from Ada and Elmore County Soil Surveys (Collette, 1980; Noe, 1991) Mapped on

Areas with Extant *Lepidium papilliferum* Populations (Conservation Data Center, 1995).

Conservation Data Center Ecorank A

Bennett Road (#008) - **basalt plains**
Elijah-Purdam silt loams, 0 to 8 percent slopes
Chilcott-Elijah silt loams, 0 to 12 percent slopes
Letha-Baldock loams, 0 to 2 percent slopes (riparian/floodplain)
Dors fine sandy loam, 0 to 4 percent slopes
Minidoka-Minveno silt loams, 0 to 4 percent slopes
Purdam silt loam, 0 to 4 percent slopes
Royal fine sandy loam, 4 to 12 percent slopes
Simco Road (#015) - dissected piedmont
Lanktree-Chilcott loams, 0 to 12 percent slopes
Initial Point (#019) - basalt /alluvial plains
Scism silt loam, bedrock substratum, 0 to 8 percent slopes
Rock outcrop-Trevino, 5 to 20 percent slopes
Potratz silt loam, 2 to 8 percent slopes
Power-McCain silt loams, 2 to 8 percent slopes
Purdam silt loam, 0 to 2 percent slopes
Purdam-Power complex, 0 to 8 percent slopes
McCain-rock outcrop complex, 0 to 15 percent slopes
Kuna Butte (#024) - basalt /alluvial plains
Power-McCain silt loams, 0 to 8 percent slopes
Orchard National Guard Training Area (#027) - basalt /alluvial plains
Bowns stony loam, 0 to 8 percent slopes
Bowns-rock outcrop, 0 to 15 percent slopes
Chardoton stony silty clay loam, 0 to 2 percent slope
Chardoton-Kiesel Variant silty clay loams, 0 to 2 percent
Chilcott-Sebree bedrock substratum, 0 to 4 percent slope
Power-McCain silt loams, 0 to 4 percent slopes
Purdam silt loam, 0 to 2 percent slopes
Power silt loam, 0 to 2 percent slope
Tenmile Creek (#032) - Boise R. terrace/basalt plains
Bram silt loam
Brent loam, 8 to 12 percent slope
Chilcott-Sebree, 0 to 4 percent slope
Colthorp silt loam, 0 to 4 percent slope
Elijah loam, 0 to 4 percent slope
Kunaton silty clay loam, 0 to 4 percent slope
Pipeline silty loam, 0 to 4 percent slope
Rock Outcrop-Trevino, 5 to 20 percent slope
Tenmile very gravelly loam, 0 to 65 percent slope
Bissell loam, 0 to 2 percent slope (riparian)

Conservation Data Center Ecorank B

Kuna Butte Southwest (#018) - basalt /alluvial plains
Scism silt loam, bedrock substratum, 2 to 4 percent slope
Power-Potratz silt loam, 2 to 4 percent slope
Rock Outcrop - Trevino Complex
Power silt loam, 0 to 2 percent slopes
Crater Rings (#021) - basalt /alluvial plains
Colthorp-Kunaton, 0 to 8 percent slopes
Pleasant Valley North (#022) - Boise R. terrace/basalt plains
Kunaton silty clay loam, 0 to 4 percent slopes
Kunaton-Sebree silty clay loam, 0 to 2 percent slopes
McCain silty loam, 0 to 2 percent slopes
Elijah silt loam, bedrock substratum, 2 to 4 percent slopes
Colthorp silt loam, 0 to 2 percent slopes
Mountain Home South (#029) - basalt plains
Colthorp-Kunaton, 0 to 8 percent slopes
Soles Rest Creek (#030) - dissected piedmont
Lanktree-Chilcott loam
Orchard Southwest (#042) - basalt /alluvial plains
Power-Chardoton, 0 to 4 percent slopes
Chilcott-Kunaton-Chardoton, 2 to 12 percent slopes
South Cole Road / Tenmile Creek South (#048) - Boise R. terrace/basalt plains
Kunaton silty clay loam, 0 to 4 percent slopes
Fivemile Creek (#049) - Boise R. terrace/basalt plains
Elijah silt loam, 0 to 8 percent slopes
Woods Gulch (#052) - lacustrine foothills
Lankbush-Ladd, 30 to 60 percent slopes
Quincy-Lankbush, 30 to 80 percent slopes
Haw-Lankbush, 15 to 25 percent slopes

APPENDIX B (continued .....)

Willow Creek (#056) - lacustrine foothills

Haw loam, 12 to 30 percent slopes

Payette coarse sandy loam, 60 to 70 percent slopes

Lolalita coarse sandy loam, 30 to 60 percent slopes

Conservation Data Center Ecorank C

Chalk Flat (#010) - dissected terraces and plains of Snake R.

Bahem silt loam, 0 to 4 percent slopes

Soles Rest Creek (#020) - dissected piedmont

Lanktree-Chilcott loam

Initial Point Southwest (#026) - basalt/alluvial plains

Chilcott-Brent silt loams, 0 to 2 percent slopes

Chilcott-Sebree silt loams, 0 to 2 percent slopes

Jennes fine sandy loam, 0 to 2 percent slopes (riparian)

Christmas Mountain North (#028) - basalt/alluvial plains

Bowns Rock Outcrop, 0 to 15 percent slopes

Chardoton-Kiesel Variant silty clay loams, 0 to 2 percent slopes

Chilcott-Sebree, bedrock substrate, 0 to 4 percent slopes

Elijah silt loam, bedrock substrate, 0 to 4 percent slopes

McCain silt loam, 0 to 4 percent slopes

McCain extremely stony silt loam, 4 to 12 percent slopes

Power silty loam, 0 to 4 percent slopes

Power-McCain complex, 0 to 8 percent slopes

Purdam silt loam, 0 to 2 percent slopes

Rock Outcrop-Trevino, 5 to 20 percent slopes

Bowns Creek (#031) - dissected piedmont

Haw-Farrot complex, 4 to 20 percent slopes

Horse (#037) - lacustrine foothills

Payette-Quincy complex, 35 to 60 percent slopes

Orchard SSW (#041) - basalt/alluvial plains

Searles-Ladd complex, 30 to 65 percent slopes

Ladd-Searles complex, 30 to 65 percent

Westside Canal / Slade Flat West (#050) - basalt plains

Colthorp-Kunaton, 0 to 8 percent slopes

Kuna Butte Northwest (#057) - basalt/alluvial plains

Rock Outcrop-Trevino, 5 to 20 percent slopes

Scism silt loam, 8 to 12 percent slopes

Conservation Data Center Ecorank D

Military Reserve Park (#012) - lacustrine foothills

Quincy-Lankbush complex, 30 to 80 percent slopes

Lower Hulls Gulch - Hulls Ridge (#023) - lacustrine foothills

Payette-Quincy complex

Melba Butte (#025) - basalt/alluvial plains

McCain silt loam, 4 to 12 percent slopes

Rock Outcrop-Trevino

Orchard Southwest (#035) - basalt/alluvial plains

Chilcott-Sebree complex

Hackberry Divide (#036) - lacustrine foothills

Quincy-Lankbush complex, 4 to 12 and 30 to 80 percent slopes

Goose Creek (#038) - lacustrine foothills

Quincy-Lankbush, 30 to 80 percent slopes

Haw-Lankbush, 25 to 40 percent slopes

Woods Gulch (#039) - lacustrine foothills

Quincy-Lankbush, 30 to 80 percent slopes

Payette-Quincy complex

Willow Creek (#047) - lacustrine foothills

Haw-Lankbush, 15 to 25 percent slopes

Brent loam, low rainfall, 4 to 8 percent slopes

Christmas Mountain (#053) - basalt/alluvial plains

McCain extremely stony silt loam

Chilcott-Sebree complex, bedrock substratum, 0 to 2 percent slopes

Glenn's Ferry Northwest (#058) - dissected terraces and plains of Snake R.

Owsel-Purdam, 1 to 12 percent slopes

Elijah silt loam, 0 to 4 percent slopes

Elijah-Purdam complex, 0 to 8 percent slopes

APPENDIX C

Key to the Soil Taxonomy Classification Names of Soil Series listed in Appendix B.

Bahem:Coarse-silty, mixed, mesic Xerollic **Calciorthids**

Baldock:Fine-loamy, mixed (calcareous) mesic Typic **Haplaquepts**

Bissell:Fine-loamy, mixed, mesic Aridic **Argixerolls** (riparian)

Bowns:Fine, montmorillonitic, mesic Xerollic **Paleargids**

Bram:Coarse-silty, mixed, mesic Xerollic **Calciorthids**

Brent:Fine, montmorillonitic, mesic Xerollic **Paleargids**

Buko:Coarse-loamy, over sandy or sandy-skeletal, mixed, mesic Durixerollic **Camborthids**

Chardoton:Fine, montmorillonitic, mesic Xerollic **Paleargids**

Chilcott:Fine montmorillonitic, mesic, abruptic Xerollic **Durargids**

Colthorp:Loamy, mixed, mesic, shallow Xerollic **Durargids**

Dors:Coarse-loamy over sandy or sandy-skeletal, mixed, mesic Typic **Calciorthids**

Elijah: Fine silty, mixed, mesic, Xerollic **Durargids**

Farrot:Fine-loamy, mixed, mesic Typic **Argixerolls**

Haw:Fine-loamy, mixed, mesic Aridic Calcic **Argixerolls**

Jennes:Coarse-loamy, mixed, nonacid, mesic Xeric **Torriorthents**

Kiesel Var.:Fine, montmorillonitic, mesic Xerollic **Natrargids**

Kunaton:Clayey, montmorillonitic, mesic, shallow Abruptic Xerollic **Durargids**

Ladd:Fine-loamy, mixed, mesic Typic **Argixerolls**

Lankbush:Fine-loamy, mixed, mesic, Xerollic **Haplargids**

Lanktree:Fine, montmorillonitic, mesic, Xerollic **Haplargids**

Letha:Coarse-loamy, mixed (calcareous) mesic Aeric **Haplaquepts**

McCain:Fine-silty, mixed, mesic Xerollic **Haplargids**

Minidoka:Coarse-silty, mixed, mesic, Xerollic **Durorthids**

Minveno:Loamy, mixed, mesic, shallow Xerollic **Durorthids**

Owsel:Fine-silty, mixed, mesic Durixerollic **Haplargids**

Payette:Coarse-loamy, mixed, mesic Aridic Calcic **Argixerolls**

Pipeline:Loamy, mixed, mesic, shallow Xerollic **Durargids**

Potratz:Fine-loamy, mixed, mesic Xerollic **Camborthids**

Power:Fine-silty, mixed, mesic Xerollic **Haplargids**

Purdam:Fine silty, mixed, mesic, Haploxerollic **Durargids**

Quincy:Mixed, mesic Xeric **Torripsamments**

Royal:Coarse-loamy, mixed, mesic Xerollic **Camborthids**

Scism:Coarse-silty, mixed, mesic Haploxerollic **Durorthids**

Searles:Loamy-skeletal, mixed, mesic Aridic **Argixerolls**

Sebree:Fine-silty, mixed, mesic Xerollic **Nadurargids**

Tenmile:Clayey-skeletal, montmorillonitic, mesic, Xerollic **Haplargid**

Timmerman:Sandy, mixed, mesic, Xerollic **Camborthids**

Trevino:Loamy, mixed, mesic Lithic Xerollic **Camborthids**

APPENDIX D

Natric Soil Series and Soil Series Associated with Natric Soils from Ada and Elmore County Soil Surveys (Collette, 1980; Noe, 1991) that are Mapped on Areas with Extant *Lepidium papilliferum* Populations (Conservation Data Center, 1995).

Chardoton:**Paleargids**
Chilcott:**Durargids**
Colthorp:**Durargids**
Elijah: **Durargids**
Kiesel Var.:**Natrargids**
Kunaton:**Durargids**
Lanktree:**Haplargids**
McCain:**Haplargids**
Owsel:**Haplargids**
Pipeline:**Durargids**
Power:**Haplargids**
Purdam:**Durargids**
Sebree:**Nadurargids**
Trevino:**Camborthids**

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